

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT US 13 BUSINESS (FRUITLAND BOULEVARD) AND CEDAR LANE/MD 513 (E. CEDAR LANE) IN WICOMICO COUNTY. NON-INVASIVE MICROLOOP PROBES WILL BE INSTALLED FOR SETBACK DETECTION ALONG SB US 13 BUSINESS. US 13 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE. THE ALTERNATE SIDE STREET PEDESTRIAN PHASE WILL REMAIN.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET, CONTROLLER, EQUIPMENT AND ASSOCIATED HARNESSES SHALL REMAIN.

THE CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS:

Mr. Gene Coffell
Assistant District Engineer - Traffic
Phone: 410-677-4040

Mr. Bruce Poole
Assistant District Engineer - Utility
Phone: 410-677-4082

Mr. James Wright
Assistant District Engineer - Maintenance
Phone: 410-677-4010

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Edward Rodenhizer
Chief, SHA Signal Shop
Phone: 410-787-7650

The Power Company Representative Is:
Delmarva Power
2530 N Salisbury Blvd.
Salisbury, Maryland
1-800-375-7117

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO. QUANTITY DESCRIPTION

NONE - THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

| ITEM NO. | QUANTITY | DESCRIPTION |
|----------|----------|--|
| 1001 | 1 EA | MAINTENANCE OF TRAFFIC |
| 8006 | 1 EA | REMOVE & DISPOSE OF MATERIAL & EQUIPMENT |
| 8010 | 60 LF | SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES -BORED |
| 8012 | 10 LF | SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES -TRENCHED |
| 8017 | 2 EA | NON-INVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE |
| 8018 | 2 EA | FURNISH AND INSTALL ELECTRICAL HANDHOLE |

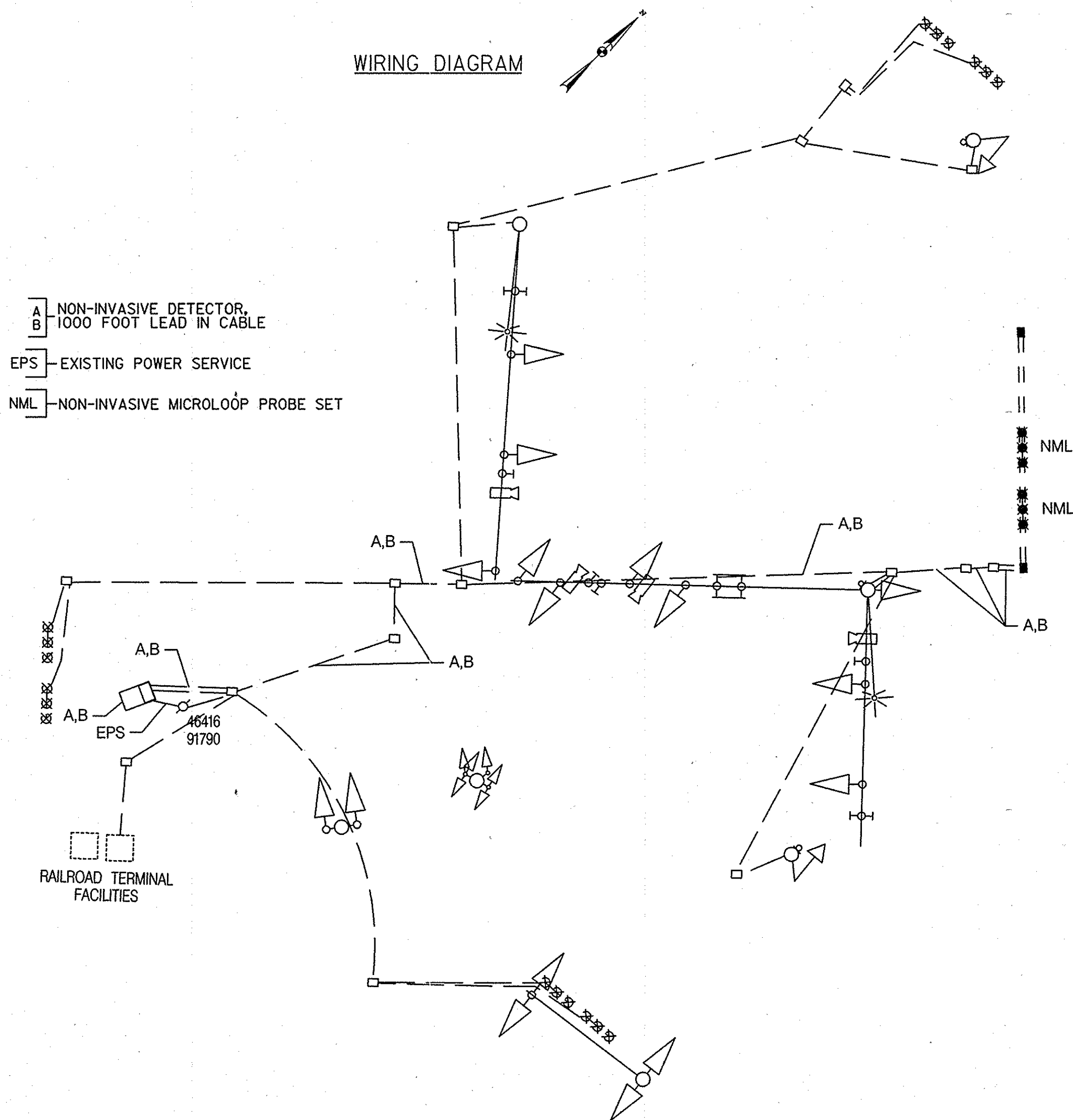
EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO. QUANTITY DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

WIRING DIAGRAM



PHASE CHART

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12 | 12 | |
|----------------------------|--------|--------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | | | | | | | | | | | | | | | |
| PHASE 1 AND 5 | ←G- | ←G- | R | R | ←G- | ←G- | R | R | R | R | R | R | DW | DW | |
| PHASE 1 AND 6 | ←G- | ←G- | G | G | ←R- | ←R- | R | R | R | R | R | R | DW | DW | |
| 1 CHANGE | ←Y- | ←Y- | G | G | ←R- | ←R- | R | R | R | R | R | R | DW | DW | |
| PHASE 2 AND 5 | ←R- | ←R- | R | R | ←G- | ←G- | G | G | R | R | R | R | DW | DW | |
| 5 CHANGE | ←R- | ←R- | R | R | ←Y- | ←Y- | G | G | R | R | R | R | DW | DW | |
| PHASE 2 AND 6 | ←R- | ←R- | G | G | ←R- | ←R- | G | G | R | R | R | R | DW | DW | |
| PED CLEARANCE | ←R- | ←R- | G | G | ←R- | ←R- | G | G | R | R | R | R | DW | DW | |
| 2 AND 6 CHANGE | ←R- | ←R- | Y | Y | ←R- | ←R- | Y | Y | R | R | R | R | DW | DW | |
| PHASE 3 | ←R- | ←R- | R | R | ←R- | ←R- | R | R | R | R | ←G- | G | DW | DW | |
| PHASE 3 CHANGE | ←R- | ←R- | R | R | ←R- | ←R- | R | R | R | R | Y | Y | DW | DW | |
| PHASE 3 ALT | ←R- | ←R- | R | R | ←R- | ←R- | R | R | R | R | ←G- | G | W | W | |
| PHASE 3 PED CLEARANCE | ←R- | ←R- | R | R | ←R- | ←R- | R | R | R | R | ←G- | G | FLOW | FLOW | |
| PHASE 3 ALT CHANGE | ←R- | ←R- | R | R | ←R- | ←R- | R | R | R | R | Y | Y | DW | DW | |
| PHASE 4 | ←R- | ←R- | R | R | ←R- | ←R- | R | R | ←G- | G | R | R | DW | DW | |
| PHASE 4 CHANGE | ←R- | ←R- | R | R | ←R- | ←R- | R | R | Y | Y | R | R | DW | DW | |
| PRE-EMPTION PHASE 2 AND 6 | ←R- | ←R- | G | G | ←R- | ←R- | G | G | ←R- | R | ←R- | R | DW | DW | |
| PRE-EMPTION 2 AND 6 CHANGE | ←R- | ←R- | Y | Y | ←R- | ←R- | Y | Y | ←R- | R | ←R- | R | DW | DW | |
| FLASHING OPERATION | FL/4Y- | FL/4Y- | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | DARK | DARK | |
| PRE-EMPTION RAILROAD | ←R- | ←R- | G | G | ←R- | ←R- | G | G | ←R- | R | ←R- | R | DARK | DARK | |

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 13 BUSINESS (FRUITLAND BOULEVARD)
AT CEDAR LANE/MD 513 (E. CEDAR LANE)

GENERAL INFORMATION

SCALE NONE ADVERTISED DATE 11/01/07 CONTRACT NO. AX139S185

DESIGNED BY VGN COUNTY WICOMICO
DRAWN BY CCW LOGMILE 22B01302.64
CHECKED BY BAB TIMS NO. 1393
F.A.P. NO. TOD NO.

TS NO. 1830F-GI DRAWING SG-2 OF 2 SHEET NO. 2 OF 2

TOD NO:AX139-03
SHA NO:W1374A52/B52/C52
US 13 BUS.:COLLEGE AVE TO
SOMERSET COUNTY LINE

PLOTTED: Tuesday, October 30, 2007 AT 10:57 AM
FILE: P:\Traffic\Proposals\SHA TEDD\US 13 Business Video Detection\MD 513\USG-N1000_md513.dgn

STV Incorporated

engineers / architects / planners / construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

BY: thompsma